

Ref 116/08

- (**refuse** <agent\_id> <service\_name> <conversation\_id>  
<message\_id>)

**failure** The failure interface.

- (**failure** <agent\_id> <service\_name> <conversation\_id>  
<message\_id>)

5

**inform** The inform interface.

- (**inform** <agent\_id> <service\_name> <conversation\_id> <message\_id>)

### Agent Architecture

- 10 There follows a description of the design of the agent's internal negotiation deliberation mechanisms. Each agent in the scenario is assumed to be architecturally equivalent. Sections below are the detailed description of the components of this architecture.

### The Negotiation Reasoning Model

- 15 The reasoning model determines the agents behaviour in a given negotiation context. It is responsible for
- initiating negotiation to obtain a desired service
  - responding to proposals from other agents
  - determining when proposals should be accepted or rejected
  - 20 • and determining when counter-offers should be made and what these counter offers should be.

Negotiation has three reasoning components (see [1] for a formal specification) which are supported by information maintained in the agent models and the agent's  
25 working memory.

09688289-101300

00000000000000000000000000000000

5

10

## 15

20

25

Sem  
1/16/08**User Interaction**

User access to this advanced eCommerce which has a potentially globally distributed (made possible primarily by the Internet) set of participants (buyers, sellers, and intermediaries) will be possible, seamlessly from variety of devices ranging from next generation mobile phones, PDAs and Internet access devices via the use of the agent platform described in our previous Agent Enabling Technology patent application. In addition the basic distribution platform features have also been developed to enable user access via WAP enabled and/or HTML enabled GUIs.

10

09688289.101300